

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions of the claims in the Application. With reference to the listing it is noted that, herewith, claim 28 is amended and claim 56 is added. No new matter has been added.

Listing of Claims

1-12 (Canceled)

13. (Original) A mobile content delivery (MCD) system comprising:

provisioning means for maintaining user profiles;
charging means for generating corresponding billing information;
timing means for measuring absolute time remaining to deliver a content delivery message;
queuing means for placing said content in time remaining order;
locating means for identifying a wireless terminal device location;
on-line and statistical analyzing means for evaluating wireless network activity;
traffic analyzing means for intercepting and re-directing traffic;
interfacing means for utilizing different transport mechanisms; and
delivery scheduling means for scheduling delivery of said content based on an evaluation of said wireless network activity in an area in which a wireless terminal device is located.

14. (Original) The MCD system as in claim 13 wherein said timing means inserts an absolute time remaining value into the queue logic of the corresponding message.

15. (Original) The MCD system as in claim 13 wherein said queuing means places said message content into a queue.

16. (Original) The MCD system as in claim 13 wherein said locating means is capable of locating said wireless terminal device current location.

17. (Original) The MCD system as in claim 13 wherein said on-line and statistical analyzing means are capable of tracking usage of said wireless network.

18. (Original) The MCD system as in claim 13 wherein said delivery scheduling means schedules delivery by determining a cell's usage relative to its capacity, a message content file size, an absolute time remaining to deliver said message, and user location information.

19. (Canceled)

20. (Previously Presented) The mobile content delivery wireless network as in claim 28 wherein said messaging transport system or MCD system contains or interacts with a Short Message System that delivers a wake-up message to said wireless terminal device.

21. (Previously Presented) The mobile content delivery wireless network as in claim 28 wherein said messaging transport system or MCD system receives a content delivery message from said content/service provider.

22. (Previously Presented) The mobile content delivery wireless network as in claim 28 wherein said MCD system schedules delivery of a content delivery message via said messaging transport system.

23. (Previously Presented) The mobile content delivery wireless network as in claim 28 wherein said MCD system schedules delivery of a content delivery message via some other delivery system.

24. (Canceled)

25. (Previously Presented) The mobile content delivery wireless network as in claim 28 wherein said wireless terminal device receives a content from said messaging system, that acts as a delivery server.

26. (Canceled)

27. (Previously Presented) The mobile content delivery wireless network as in claim 28 wherein said wireless terminal device sends content, and delivery from the wireless terminal towards the

network is scheduled based on communication between the wireless device and the MCD system.

28. (Currently Amended) A mobile content delivery wireless network comprising of:

a wireless terminal device, a content/service provider, a delivery server, a mobile content delivery system (MCD), and a messaging transport system; wherein the said wireless terminal device interacts with said elements;

said MCD system interacts with said elements;

said delivery system interacts with said MCD system;

said content/service provider interacts with said MCD system; and

said content/service provider interacts with said messaging transport system,

wherein said wireless terminal device interacts with said content/service provider through said MCD system, and upon content download the MCD system performs the download on behalf of the user, to the network,

wherein a Quality Of Service (QoS) parameter is attached to a short message in order to adjust speed of delivery through the network.

29. (Original) The mobile content delivery wireless network as in claim 28 wherein the MCD system interacts with the wireless terminal, informs it about a scheduled delivery being made, and disconnects the session, at the same time downloading the content from the content/service provider to the network.

30. (Original) The mobile content delivery wireless network as in claim 29 wherein the MCD system can first deliver a link address of the content to the wireless terminal and delay delivery of the actual content to ensure the most current content is received by the wireless terminal.

31. (Original) The mobile content delivery wireless network as in claim 29 wherein the MCD system intercepts the traffic based on content size, which web service is used, or based on a specific time where after all traffic should be intercepted.

32. (Original) The mobile content delivery wireless network as in claim 31 wherein the MCD system interception of traffic can be switched “on and off”.

33. (Canceled)

34. (Previously Presented) The wide area network system as in claim 42 wherein a user browses, orders, and specifies said class of delivery of a content.

35. (Previously Presented) The wide area network system as in claim 42 wherein one of the wireless terminal devices sends addressing information such as IP address or mobile phone number, default messaging server address, and delivery class to the content/service provider.

36. (Previously Presented) The wide area network system as in claim 42 wherein the content/service provider system queries the user for addressing information such as IP address or mobile phone number, default messaging server address, and delivery class.

37. (Previously Presented) The wide area network system as in claim 42 wherein said content/service provider is the source of said content.

38. (Previously Presented) The wide area network system as in claim 42 wherein one of said wireless terminal devices is the source of said content.

39. (Previously Presented) The wide area network system as in claim 42 wherein said content/service provider forwards said content to said messaging transport system, or another designated delivery server, such as the MCD system.

40. (Previously Presented) The wide area network system as in claim 42 wherein said MCD system schedules a delivery time window of said content based on said class of delivery, user location, network capacity usage, and content file size

41. (Previously Presented) The wide area network system as in claim 42 wherein said short message system delivers a wake-up message to said plurality of wireless terminal devices.

42. (Previously Presented) A wide area network system comprising:

a plurality of wireless terminal devices, a multiple base station system configuration, one or more base station controllers, a cellular network, a content/service provider, a messaging transport system, a short message system, and a mobile content delivery

(MCD) system together capable of browsing, ordering, specifying a class of delivery, scheduling, and delivering content to said plurality of wireless terminal devices,

wherein a Quality Of Service (QoS) parameter is attached to a short message in order to adjust the speed of the delivery through the network.

43. (Canceled)

44. (Canceled)

45. (Previously Presented) The wide area network system as in claim 42 wherein said messaging transport system or a designated delivery server delivers said content to said plurality of wireless terminal devices over said cellular network.

46. (Previously Presented) The wide area network system as in claim 42 wherein the content is delivered through an alternate network (e.g. Internet, ISDN, ADSL, Wireless LAN, Bluetooth, or other networks) based on the operator network architecture, the wireless network load condition, and the preferences set in a user profile.

47. (Original) The wide area network system as in claim 46 wherein said content delivered through said alternate network is billed to the user according to said class of delivery.

48. (Previously Presented) The wide area network system as in claim 42 wherein the MCD system performs traffic analysis and provides a means for intercepting and re-directing traffic based on the data in the traffic streams.

49. (Previously Presented) The wide area network system as in claim 42 wherein the MCD system performs traffic analysis and provides a means for inserting modified or new data in the traffic streams.

50-55 (Canceled)

56. (New) A device, comprising:

a memory having program code stored therein;
a processor disposed in communication with the memory for carrying out instructions in accordance with the stored program code; and
a network interface disposed in communication with the processor;
wherein the program code, when executed by the processor, causes the processor to perform:

maintaining user profiles;
generating corresponding billing information;
measuring absolute time remaining to deliver a content delivery message;
placing content in time remaining order;
identifying a wireless terminal device location;
evaluating wireless network activity;

intercepting and re-directing traffic;
utilizing different transport mechanisms; and
scheduling delivery of said content based on an evaluation of said wireless network activity in an area in which a wireless terminal device is located.